

### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **LISTING OF THE CLAIMS**

1. **(CURRENTLY AMENDED)** In a reprocessor having a circulation system for circulating a liquid sterilant or microbial deactivation fluid through a chamber that forms a part of said circulation system, a water filtration system for filtering water used in said reprocessor, said water filtration system, comprising:

a fluid feed line connectable to a source of pressurized water;  
a first filter element disposed in said fluid feed line for filtering fluids flowing therethrough; [[and]]

a second filter element disposed in said fluid feed line for filtering fluids flowing therethrough, said second filter element being downstream from said first filter element and having the capacity to filter particles smaller than said first filter element; and

a bypass line connected to said fluid feed line to define a fluid path that bypasses said first and second filter elements;

said water filtration system being connected to said fluid circulation system wherein all , said fluid feed line forming a fluid path for water entering said reprocessor first passes through said fluid feed line and said filter elements, and defining a portion of a path for all fluid circulated through said circulation system passes through said fluid feed line and said filter elements.

2. **(CANCELED)**

3. **(ORIGINAL)** A reprocessor as defined in claim 1, further comprising valve means operable to isolate said first and second elements from said circulation system and from each other.

4. **(ORIGINAL)** A reprocessor as defined in claim 1, further comprising means for determining the integrity of said first and second filter elements.

5. **(ORIGINAL)** A reprocessor as defined in claim 4, wherein said means for determining the integrity of said first and second filter elements includes a first differential pressure sensing device operable to sense a pressure differential across said first filter element, and a second differential pressure sensing device operable to sense a pressure differential across said second filter element.

6. **(ORIGINAL)** A reprocessor as defined in claim 5, wherein said means for determining the integrity of said first and second filter elements includes:

means for isolating each filter element from said filtration systems,  
means for pressuring the upstream side of each of said isolated filter elements,  
and

means for determining the integrity of each filter element based upon the pressure drop across said filter elements over time.

7. **(ORIGINAL)** A reprocessor as defined in claim 1, wherein said first and second filter elements are disposed within a single filter housing.

8. **(ORIGINAL)** A reprocessor as defined in claim 1, wherein said first and second filter elements are disposed within separate filter housings and said second filter housing is downstream from said first filter housing.

9. **(CURRENTLY AMENDED)** A sterilizer for sterilizing items, comprising:  
a sterilizing chamber for receiving items to be sterilized;  
a fluid circulation system for circulating fluids through said sterilization chamber;  
means for generating a liquid sterilant from dry chemical reagents by mixing water therewith;

means for circulating said liquid sterilant through said fluid circulation system;  
a water filtration system for filtering water entering said sterilizer, said filtration system including:

a fluid feed line connectable to a source of pressurized water;  
a first filter element in said fluid feed line; [[and]]  
a second filter element in said fluid feed line, said second filter element  
being downstream from said first filter element and being capable of filtering smaller particles  
than said first filter element; and

a bypass line connected to said fluid feed line to define a fluid path that  
bypasses said first and second filter elements, said water filtration system being connected to  
said fluid circulation system ~~said sterilizer having a water fill phase of operation and a chemical~~  
~~sterilization cycle of operation~~ wherein all water entering said sterilizer ~~during a water fill phase~~  
~~first~~ passes through said fluid feed line and said first and second filter, and at least a portion of  
said liquid sterilant flowing through said fluid circulation system passes through said fluid feed  
line ~~during said sterile processing phase~~.

10. **(CANCELED)**

11. **(CURRENTLY AMENDED)** A sterilizer for sterilizing items as defined in  
claim 10, further comprising means for bypassing said second filter element ~~during said sterile~~  
~~processing phase~~.

12. **(ORIGINAL)** A sterilizer for sterilizing items as defined in claim 9, further  
comprising a UV treatment device for treating water from said source of pressurized water with  
ultraviolet radiation.

13. **(ORIGINAL)** A sterilizer for sterilizing items as defined in claim 12, wherein  
said UV treatment device is outside said fluid circulation system.

14. **(ORIGINAL)** A sterilizer for sterilizing items as defined in claim 9, further  
comprising means for determining the integrity of said first and second filter elements.

15. **(ORIGINAL)** A sterilizer for sterilizing items as defined in claim 14, wherein  
said means for determining the integrity of said first and second filter elements includes a first

differential pressure sensing device associated with said first filter element, and a second differential pressure sensing device associated with said second filter element.

16. **(ORIGINAL)** A sterilizer for sterilizing items as defined in claim 15, wherein said means for determining the integrity of said first and second filter elements includes:

means for isolating each filter element from said filtration systems,

means for pressuring the upstream side of each of said isolated filter elements, and

means for determining the integrity of each filter element based upon the pressure drop across said filter elements over time.

17. **(ORIGINAL)** A sterilizer for sterilizing items as defined in claim 16, wherein said means for isolating said filter elements are valves on opposite sides of said filter elements.

18. **(ORIGINAL)** A sterilizer for sterilizing items as defined in claim 9, wherein said first and second filter elements are disposed within a single filter housing.

19. **(CURRENTLY AMENDED)** A method of operating a sterilizer having a chamber for receiving items to be sterilized, a fluid circulation system for circulating fluids through said chamber, means for generating a liquid sterilant from dry chemical reagents by mixing water therewith, and a water filtration system for filtering water entering said sterilizer, said filtration system including: a fluid feed line connectable to a source of pressurized water, a first filter element in said fluid feed line, [[and]] a second filter element in said fluid feed line, said second filter element being downstream from said first filter element and being capable of filtering smaller particles than said first filter element and a bypass line connected to said fluid feed line to define a fluid path that bypasses said first and second filter elements, said water filtration system being connected to said fluid circulation system, said method of operating comprising the steps of:

filling said sterilizer with water from a water source by passing said water through said first and second filter elements;

generating a liquid sterilant by mixing water filtered by said first and second filter elements with said dry chemical reagents; and

~~directing at least circulating said liquid sterilant through said fluid circulation system and said filtration system wherein a portion of said liquid sterilant is directed through said fluid feed line and at least another portion is directed through said first filter element during a sterile processing phase.~~

20. **(ORIGINAL)** A method of operating a sterilizer as defined in claim 19, further comprising directing said sterilant through said second filter element.

21. **(ORIGINAL)** A method of operating a sterilizer as defined in claim 19, further comprising the step of exposing said water to UV radiation before said water passes through said first and second filter elements.

22. **(ORIGINAL)** A method of operating a sterilizer as defined in claim 19, further comprising the step of testing the integrity of said filter elements after each sterile processing phase.

23. **(ORIGINAL)** In a reprocessor having a chamber for receiving items to be microbially deactivated or sterilized, a fluid circulation system for circulating fluids through said chamber, means for generating a microbial deactivation fluid from dry chemical reagents by mixing water therewith, and a water filtration system for filtering water entering said reprocessor, said filtration system including: a fluid feed line connectable to a source of pressurized water, a first filter element and a second filter element in said fluid feed line, said second filter element being downstream from said first filter element and being capable of filtering smaller particles than said first filter element, a method of checking the integrity of at least one of said filter elements, comprising the steps of:

- a) establishing a first known pressure on the upstream side of said filter element;
- b) allowing pressure on said upstream side of said filter element to dissipate through said filter element and through a leak orifice of known dimensions;

- c) monitoring over time the change in pressure on the upstream side of said filter;
- d) establishing a second known pressure on the upstream side of said filter element;
- e) allowing pressure on said upstream side of said filter element to dissipate through said filter element;
- f) monitoring over time the change in pressure on the upstream side of said filter; and
- g) determining a flow rate through said filter based on the changes in pressure determined in steps c) and f).

24. **(ORIGINAL)** A method as defined in claim 23, further comprising the step of conducting a pressurized leak test prior to step a).

25. **(ORIGINAL)** A method as defined in claim 24, further comprising the step of conducting a test on said leak orifice prior to step a).